#### Day 1 Monday, 4 November

08:30	Registration Opens - AINSE Theatre									
09:30	Welcome Address, Acknowledgement of Country & Housekeeping									
Session 1 - ANSTO Facility Updates   Karyn Wilde										
10:00	Update from the Australian Centre for Neutron Scattering	Jamie Schulz	#53							
10:30	Deuterium labelling at the National Deuteration Facility: Updates on Demand and Supply	Tamim Darwish	#56							
11:00	Morning Tea									
Session 2 - Magnetism and Condensed Matter   Kirrily Rule										
11:20	Invited: Cycloidal spin textures in multiferroic BiFeO3 thin films probed by neutron diffraction	Daniel Sando	#19							
11:50	The anisotropic magnetism of the cobalt-doped rare earth iron garnet Lu3Fe4Co0.5Si0.5O12	Siobhan Tobin	#5							
12:10	Investigating the perturbation to the spin ordering of the helimagnet Cu2OSeO3 upon doping	Samuel Yick	#9							
12:30	Dynamic realignment of the antiferromagnetic structure of exchange-biased CoFe /MnPt	Danica Solina	#16							
12:50	Lunch									
Session 3 - Magnetism and Condensed Matter   Dehong Yu										
13:50	Plenary 1: Investigating quantum magnetism with neutron scattering	Bella Lake	#11							
14:50	Spin wave excitations and two sublattice interactions of 153EuMn2Ge2	Richard Mole	#37							
15:10	Magnetic fans, propellers and twist structures: Micromagnetic simulations to describe polarised neutron reflectometry data	Karen Livesey	#38							
15:30	Afternoon Tea									
15:50	Recent polarised neutron experiments at ACNS	Andrew Manning	#46							
16:10	Short Break									
16:15	Poster Slam   Chin-Wei Wang									
18:15 - 20:30	Poster/Networking Session in nandin									

# AANSS2024 Program Overview

### Day 2 | Tuesday, 5 November

09:00	Invited: ANSTO's Neutrons for Industry	Helen Qiu	#4								
09:30	Material Properties and Residual Stress Measurements in Additively Manufactured 316L stainless steel components	Markus Domogala	#33								
09:50	Additive Friction Stir Deposition (AFSD) for High-Strength Aluminium Alloys	Vladislav Yakubov	#54								
10:10	Morning Tea										
	Session 5 - Biological Systems and Soft Matter   Erica Wanless										
10:30	Invited: Using (U)SANS to study protein structures in complex mixture	Leonie van t'Hag	#12								
10:50	Water Dynamics in Australian Native Fruits as studied using Neutron Spectroscopy and Tomography	Paul Michalski	#17								
11:10	Recent applications of neutron backscattering spectroscopy at ANSTO	Nicolas De Souza	#25								
11:30	Specific Ion Effects on the Behaviour of a Pluronic Block Copolymer in the Bulk and at the Air/Water Interface	Grant Webber	#27								
11:50	CLIC1 interaction with Model Membranes	Stephen Holt	#42								
12:10	Lunch										
	Session 6 - ANBUG 2024 Award Presentations   Chris Wens	rich									
13:30	ANBUG Young Scientist Award										
13:50	ANBUG Neutron Award										
14:20	Afternoon Tea										
14:50	ANBUG Career Award										
15:50	ANBUG PhD Award										
16:10	ANBUG Annual General Meeting (AGM)										
17:20	Short Break										
17:30	Plenary 2: Residual stress measurement and mitigation engineering	Philip Withers	#24								
18:30	Pre-dinner Drinks & Networking										
19:00	Dinner at ANSTO Cafe										

## Day 3 | Wednesday, 6 November

Para	dowska			Session 7   Chemistry and Crystallography - Helen Maynar	d Casely		
	Helen Qiu	#4	09:00	Plenary 3: What a tame Platypus reveals about polymer brushes	Erica Wanless	#6	
/ely	Markus Domogala	#33	10:00	Structural instability in BiVO4 under compression	Brendan Kennedy	#1	
um	Vladislav	#54	10:20	Modelling diffuse magnetic scattering in a "partial spin-liquid" kagomé compound	Chris Ling	#21	
	Yakubov	#34	10:40	Automated Analysis of Neutron Reflection Data from a Lithium- Mediated Nitrogen Reduction Reaction Using Bayesian Evidence	Callum Weir- Lavelle	#28	
Wanless			11:00	Morning Tea			
<sup>x</sup> Leonie van t'Hag #12				Session 8   Neutron Instruments & Techniques - Helen Qiu			
ron	Paul Michalski	#17	11:20	Invited: ISIS Deuteration Facility	June Mc Corquodale	#18	
ıt	Nicolas De Souza	#25	11:50	Rediscovery of lost art in Reflectometry - using Maximum Entropy to study 'diffuse' systems	Andrew Nelson	#15	
er in	Grant Webber	#27	12:10	Recent Scientific Highlights and Developments on the Spatz Neutron Reflectometer	Anton Le Brun	#26	
	Stephen Holt	#42	12:30	Awards Presentation	Andrew Peele		
			12:45	Lunch			
Vens	rich		13:40	A Decade of Successful Operation and Future Perspectives	Dehong Yu	#32	
			14:00	Neutron reflectometry for in operando characterisation of the solid electrolyte interphase (SEI) in electrochemical lithium-mediated nitrogen reduction reactions (Li-NRR)	Rebecca Hodgetts	#44	
			14:20	AINSE	Michelle Duran	t	
			14:45	Afternoon Tea			
			Sessi	on 9   Advanced functional materials & devices/Earth Environment Jiang	& Cultural Heritage	- Lu	
)			15:00	Studying device processing steps with neutron reflectometry: Examples from quantum technology	David Cortie	#4	
	Philip Withers	#24	15:20	Cultural Heritage research using neutron methods at ACNS	Filomena Salvemini	#48	
			15:40	Neutron Imaging for Palaentology	Joseph Bevitt	<b>#</b> 5	
			16:00	Closing			

